

[54] **BY-PRODUCT GYPSUM FILLERS FOR MICA-FREE JOINT COMPOUNDS CONSISTING OF SYNTHETIC CALCIUM SULPHATE DIHYDRATE HAVING A MEAN PARTICLE SIZE OF 11 OR 12 MICRONS**

[75] Inventors: **Marvin K. Lane**, Chicago; **Winton C. Anderson**, Elk Grove Village, both of Ill.

[73] Assignee: **United States Gypsum Company**, Chicago, Ill.

[22] Filed: **May 11, 1973**

[21] Appl. No.: **359,392**

[52] **U.S. Cl.**..... **260/17 R**; 106/109; 106/110; 260/8; 260/29.6 PS; 260/42.52

[51] **Int. Cl.<sup>2</sup>**..... **C04B 11/00**; C04B 11/02

[58] **Field of Search**..... 106/109, 110, 110 BV, 106/111; 260/41 A, 29.6 PS, 8, 42.52, 17 R, 17.4 ST

## [56] References Cited

### UNITED STATES PATENTS

3,297,601 1/1967 Maynard et al. .... 260/17 R

3,303,147	2/1967	Elder .....	260/17
3,305,518	2/1967	Jakacki .....	260/41 R
3,557,029	1/1971	Bergeron .....	260/8
3,652,309	3/1972	Lane .....	106/110
3,666,581	5/1972	Lane .....	106/110
3,723,146	3/1973	Lane .....	106/110

*Primary Examiner*—Joseph L. Schofer

*Assistant Examiner*—Peter F. Kulkosky

*Attorney, Agent, or Firm*—Samuel Kurlandsky; Donnie Rudd; Robert H. Robinson

[57]

## ABSTRACT

A filler for a mica-free joint compound, comprising by-product gypsum having a mean particle size between about 11 and about 12 microns, a percentage by weight of particles smaller than 1 micron of between about 5 and about 6.5, and a packed dry bulk volume no greater than about 93 cc. per 100 grams.

**7 Claims, 6 Drawing Figures**

